

Title:



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Chad A. MIRKIN et al.

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PEPTIDE AND PROTEIN ARRAYS AND DIRECT-WRITE LITHOGRAPHIC PRINTING OF PEPTIDES AND PROTEINS

Appl. No.: 10/788,414

Filing Date: 03/01/2004

Examiner: Leon Yun Bon Lum

Art Unit: 1641

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §1.56

Mail Stop IDS Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicants in order to comply with Applicants' duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

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	INFORMAT	ION DISCLOSURE	Application Number	10/788,414	007 1 4 2005
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	Data Submitte	ed: October 11, 2005	First Named Inventor	Chad A. Mirkin	The state of the s
	Date Submitte	ed. October 11, 2005	Group Art Unit	1641	The state of
	(use as many	sheets as necessary)	Examiner Name	Leon Yun Bon Lum	9400
Sheet	1	of 3	Attorney Docket Number	083847-0235	

	U.S. PATENT DOCUMENTS U.S. Patent Document Data of Bublication of Pages, Columns, Lines,											
Examiner Initials*	Cite No. ¹			Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear				
	B1	5,039,458		Braatz et al.	08-13-1991							
	B2	5,747,334		Kay et al.	05-05-1998							
	В3	5,858,801		Brizzolara	01-12-1999							
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Examiner Initials*			Foreign Patent Document Office ³ Number ⁴ Kind Code ⁵ (if known)		Name of Patentee or Applicant of Cited Documents	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
	B18	WO	96/31625		Cytogen	10-10-1996		
	B19	wo	00/04390		Zyomyx, Inc.	01-27-2000		
	B20	wo	02/45215	A2	Mirkin et al.	06-06-2002		
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	NON PATENT LITERATURE DOCUMENTS							
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T⁵					
	B21	AGARWAL, G., et al., "Dip-Pen Nanolithography in Tapping Mode", J. Am. Chem. Soc., vol. 125, pp. 580-583 (2003).						
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Examiner	Date	
Signature	Considered	

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Substitute for form 1449B/PTO Complete if Known 10/788,414 **Application Number** INFORMATION DISCLOSURE 03/01/2004 STATEMENT BY APPLICANT **Filing Date** Chad A. Mirkin First Named Inventor Date Submitted: October 11, 2005 1641 Group Art Unit Leon Yun Bon Lum **Examiner Name** (use as many sheets as necessary) 083847-0235 Attorney Docket Number Sheet

		NON PATENT LITERATURE DOCUMENTS	_
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	т
	B25	HARDER, P., et al., "Molecular Conformation in Oligo(ethylene glycol)-Terminated Self-Assembled Monolayers on Gold and Silver Surfaces Determines Their Ability To Resist Protein Adsorption", J. Phys. Chem. B, vol. 102, pp. 426-436 (1998).	
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	B33	MACBEATH, G., "Printing Proteins as Microarrays for High-Throughput Function Determination", Science, vol. 289, pp. 1760-1763 (2000).	
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	B36	MADOU, M. J., <u>Fundamentals of Microfabrication</u> , <u>The Science of Miniaturization</u> , <u>2nd Ed.</u> , CRC Press, pp. 435-439 (primary, secondary, tertiary, and quaternary structures and synthesis by ribosomes).	
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	INFORMAT	ION DISCLO	SURE	Application Number	10/788,414		
	STATEMEN	IT BY APPL	CANT	Filing Date	03/01/2004		
	Data Calbaide	ad. Oatabar 1	14 2005	First Named Inventor	Chad A. Mirkin	-	
	Date Submitte	ea: October	11, 2005	Group Art Unit	1641		
	(use as many	sheets as ne	cessary)	Examiner Name	Leon Yun Bon Lum		
Sheet	3	of	3	Attorney Docket Number	083847-0235		

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	B46	WADU-MESTHRIGE, K., et al., "Fabrication of Nanometer-Sized Protein Patterns Using Atomic Force Microscopy and Selective Immobilization", Biophys. J., vol. 80, pp. 1891-1899 (2001).	
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